WOODSTOCK

# SHOP FOX®

INTERNATIONAL

# ALUMA-CLASSIC™ FENCE

## W1716 & W1720

# INSTRUCTION MANUAL

**Phone: 1-360-734-3482 • On-Line Technical Support: tech-support@shopfox.biz**

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**Printed in Taiwan**

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**USE THE QUICK GUIDE PAGE LABELS TO SEARCH OUT INFORMATION FAST!**

# INTRODUCTION

## About Your New Aluma-Classic™ Fence

Your new **SHOP FOX®** Model W1716/W1720 Aluma-Classic™ Fence is specially designed to provide many years of trouble-free service. Close attention to engineering detail, ruggedly built parts, and a rigid quality control program assure safe and reliable operation.

The Aluma-Classic™ Fence features an extruded aluminum and steel construction, utilizing a sturdy T-shape design that fits most table saws easily. The Model W1716/W1720 also features a single cam locking lever, magnified cursor lens and standard 57" rails. The Model W1720 is exactly the same as the Model W1716 except it features 79" extruded aluminum rails for wide panel cutting up to 50" right of the blade.

For more features and details, refer to the **Specifications** sub-section in this manual.

Woodstock International, Inc. is committed to customer satisfaction in providing this manual. It is our intent to include all the information necessary for safety, ease of assembly, practical use and durability of this product.

If you need the latest edition of this manual, you can download it from **http://www.shopfox.biz**.
If you still have questions after reading the latest manual, or if you have comments please contact us at:

**Woodstock International, Inc.**
**Attn: Technical Support Department**
**P.O. Box 2309**
**Bellingham, WA 98227**

## Woodstock Service and Support

We stand behind our machines! In the event that a defect is found, parts are missing or questions arise about your machine, please contact Woodstock International Service and Support at 1-360-734-3482 or send e-mail to: tech-support@shopfox.biz. Our knowledgeable staff will help you troubleshoot problems, order parts or arrange warranty returns.

# Get To Know Your Fence

For proper operation it is important to know your machine and its components. Please take the time to learn the features shown in **Figure 1 & 1a** below.

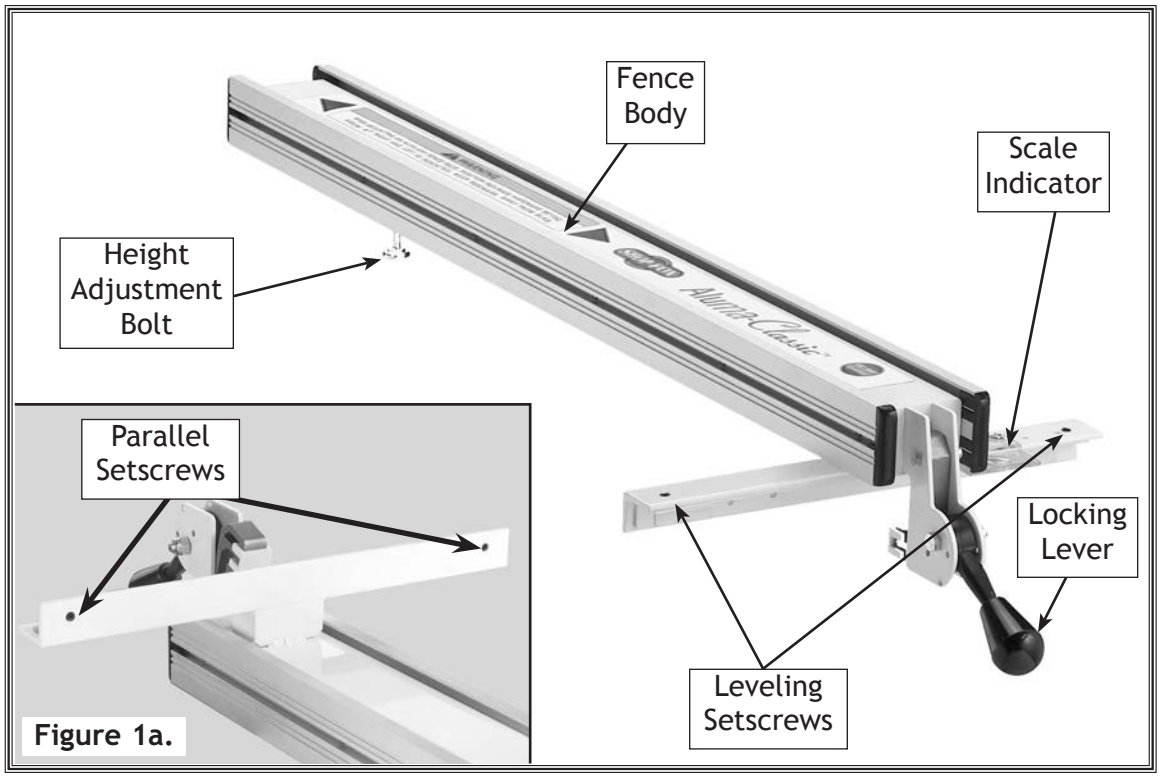



**Figure 1.** Fence features.

# Unpacking

The **SHOP FOX®** W1716/W1720 has been carefully packaged for safe transporting. If you notice the fence has been damaged, please contact Woodstock International Service and Support at 1-360-734-3482 or send e-mail to: tech-support@shopfox.biz

# Fence Controls

Take the time to familiarize yourself with the features of your new **SHOP FOX®** Model W1716/W1720 Aluma-Classic™ Fence. They will be frequently mentioned throughout the instructions in this manual. **Figure 1** points out the key features and their locations.

# ASSEMBLY



## Inventory

The following is a description of the main components shipped with the **SHOP FOX®** Model W1716/W1720 Aluma-Classic™ Fence. You should lay the components out to easily identify them.

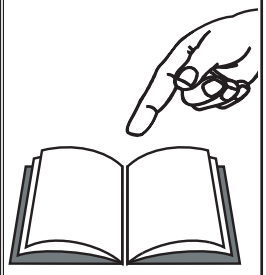
If any parts are missing, find the part number in the back of this manual and contact Woodstock International, Inc. at 360-734-3482 or at: tech-support@shopfox.biz

**Model W1716:**

- Aluma-Classic™ Fence 1
- Fence Handle Knob 1
- Fence Scale Assembly 1
- 57" Front Rail 1
- 57" Front Rail Bracket 1
- 48" Rear Rail 1
- 30" Scale 1
- W1716 Hardware Bag 1

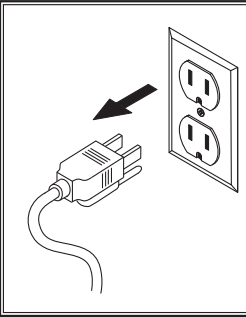
**Model W1720:**

- Aluma-Classic™ Fence 1
- 79" Front Fence Rails 1
- 79" Rear Fence Rails 1
- Rail End Caps 4
- Phillips Head Tap Screw #8 x 3/8" 4
- Legs 2
- Feet 2
- 50" Scale 1
- W1720 Hardware Bag 1



**⚠WARNING**

**READ and understand this entire instruction manual before performing any operations with your machine. Serious personal injury may occur if safety and operational information is not understood and followed.**



**⚠WARNING**

**UNPLUG-power cord before you do any assembly or adjustment tasks! Otherwise, serious personal injury to you or others may occur!**

# W1716 Installation

The **SHOP FOX®** W1716 Aluma-Classic™ Fence comes in a box with its own hardware bag.

| W1716 Hardware Bag Contents: | Qty |
|---|---|
| • Cap Screws 5/16"-18 x 1" | 4 |
| • Flat Washers 5/16" | 8 |
| • Flat Washers 1/4" | 6 |
| • Lock Washers 1/4" | 6 |
| • Hex Nuts 5/16"-18 | 8 |
| • Hex Bolts 1/4"-20 x 3/4" | 6 |
| • Flat Head Screws 5/16"-18 x 1" | 4 |
| • Hex Key 6mm | 1 |
| • Hex Key 4mm | 1 |

**To install the fence rail to the table saw, do these steps:**

**1.** Install the rear rail bracket (long angle iron) to the back side of the table (**Figure 2**), with the four 5/16" cap screws. The holes in the extension wings are not threaded and require 5/16" nuts and washers to secure them.

**2.** Install the front fence rail bracket.

— If your table saw has cast iron extension tables, install the front rail bracket to the main table with two 5/16"-18 x 1" flat head screws, washers and hex nuts, as shown in **Figure 3**.

— If your table saw has sheet metal extension tables, install the front bracket to the main table with two 5/16"-18 x 1" flat head screws, washers and hex nuts. Also, secure the front rail bracket to each extension table (**Figure 3**) with a 5/16"-18 x 1" flat head screw, washer and hex nut.

If the extension tables do not have mounting holes, or if the holes in the front fence rail bracket and extension tables do not align, drill 5/16" holes into the extension tables.

**3.** Align the front rail (rectangular tubing) threaded holes over the front rail bracket holes and secure it in place with the provided six 1/4"-20 x 3/4" hex bolts, flat washers, and lock washers (see **Figure 4**).

**Figure 2**. Rear fence rail bracket.

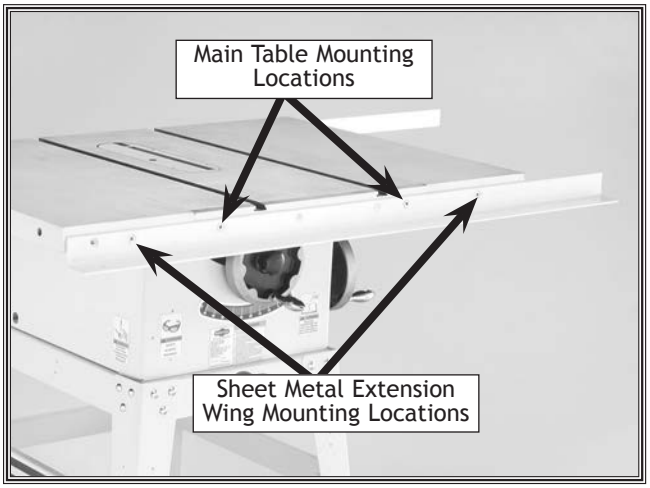



**Figure 3**. Front fence rail bracket.

**Figure 4**. Installing fence tubing.

**To install the rip fence to the table saw, do these steps:**

1. Thread the handle knob onto the fence locking handle.

2. Make sure the handle is in the unlocked "UP" position before placing the fence on the rails.

3. Check to see that the fence clears the table surface throughout its range of travel, and increase or decrease the height between the fence and table by adjusting the bolt shown in **Figure 5**.

4. Install the clear scale indicator to the right of the fence with the #10-24 x 3/8" Phillips head screws and #10 washers (**Figure 6**).

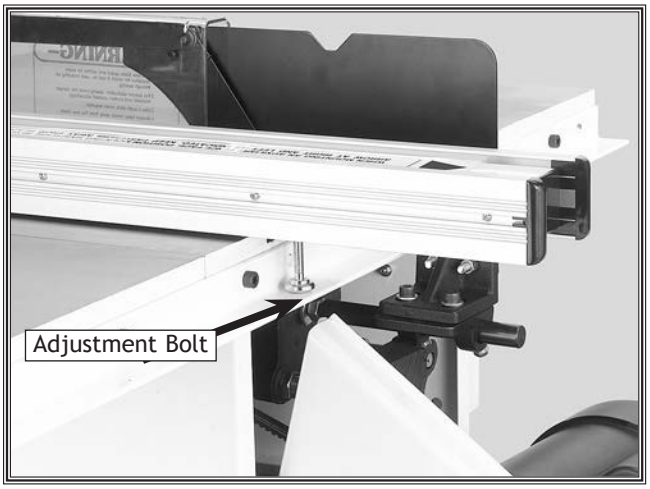



**Figure 5.** Adjustment bolt.

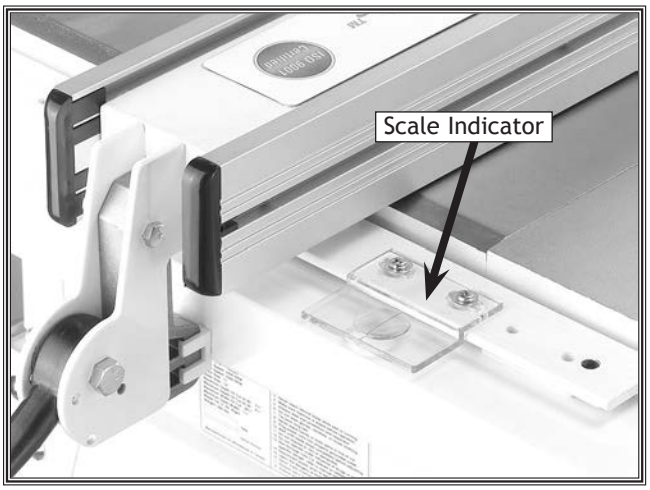



**Figure 6.** Scale indicator.

# W1720 Installation

The **SHOP FOX®** W1720 Aluma-Classic™ Fence with 79" rails mounts to most table saws. **Figure 7** shows the inventory for the W1720 (Fence not shown).

| **W1720 Hardware Bag Contents:** | **Qty** |
|---|---|
| • Flat Washer 1/4" | 8 |
| • T-Bolt M6-1 x 30 | 8 |
| • Hex Nut M6-1 | 8 |
| • Flat Washer 5/16" | 10 |
| • T-Bolt 5/16"-18 x 3/4" | 10 |
| • Hex Nut 5/16"-18 | 10 |

**To install the W1720 fence rails to the table saw, do these steps:**

1. Remove the fence, the standard rails, and the blade guard that came with the table saw, if they are installed.

2. In the front and back edge of the table, insert eight M6-1.0 x 30 T-bolts (four on each side) through the larger threaded holes, and install the flat washers and nuts on each bolt. See **Figure 8**.

**Figure 7.** Extension rail inventory.

3. Insert two $^{5}/_{16}$"-18 x $^{3}/_{4}$" T-bolts in the right table wing, and two into the edge of the left table wing, and install the flat washers and nuts on each bolt. See **Figure 8**.

4. Tighten all nuts until there is a gap of approximately $^{3}/_{16}$" to $^{1}/_{4}$" between the T-bolt and the table and wing edges.

5. Slide the extension rail over the T-bolts as shown in **Figure 1** until the rail is flush with the end edge of the left table wing.

6. Tighten all hex nuts.

7. On each leg flange fasten two $^{5}/_{16}$"-18 x $^{3}/_{4}$" T-bolts, flat washers, and the nuts; then slide the legs onto the rails as shown in **Figure 9**.

8. Tighten the hex nuts to secure the legs to the rails, and secure the rail end caps with the Phillips head screws.

9. Insert two $^{5}/_{16}$"-18 x $^{3}/_{4}$" T-bolts into the start switch mounting slot (see **Figure 8)**, and position the start switch mounting bracket to the underside of the rail, and secure it with the washers and nuts.

10. Install fence, and adjust rails to fine-tune the mounting alignment of the rails and legs.

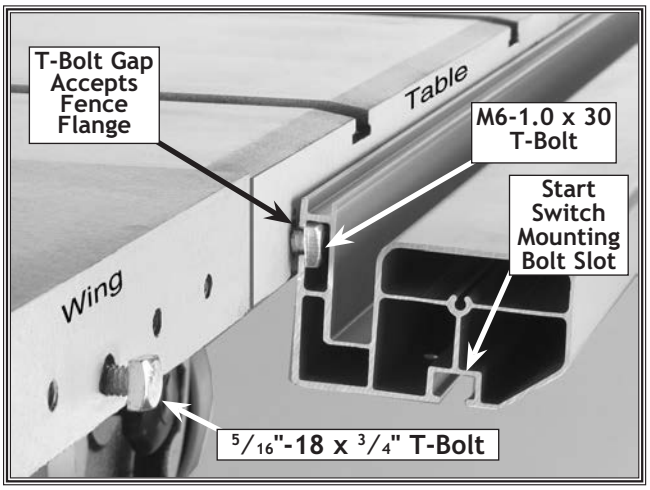



**Figure 8.** Front rail being slid onto T-bolts.

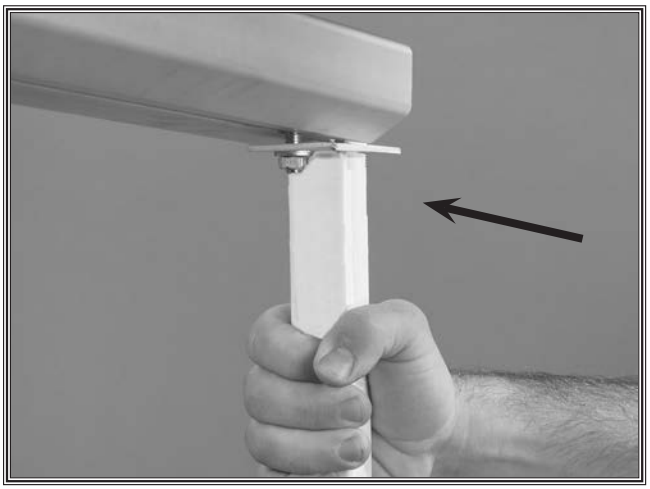


**Figure 9.** Sliding rail leg into table.

# Installing Metal Extension Wings

The **SHOP FOX®** Model W1722 Heavy-Duty Metal Extension Wings (**Figure 10**) can be installed on the Model W1720 79" rails.

| **W1722 Hardware Bag Contents:** | **Qty** |
|---|---|
| • Flat Washer 5/16" | 12 |
| • T-Bolt 5/16" -18 x 1" | 12 |
| • Hex Nut 5/16"-18 | 12 |

**To install the W1722 extension wings, do these steps:**

1. Loosely install the T-bolts, washers and hex nuts into the short sides of the extension wings.

2. Insert the T-bolt heads into the rail T-slots as shown in **Figure 11**.

3. Slide the tables into place as shown in **Figure 12**. Note—*The tables slide into place easily if you lift up while you slide them into place*.

4. Place a straightedge across the top of the wings, and tighten the nuts behind the edge of the extension wings to secure the wings in place.

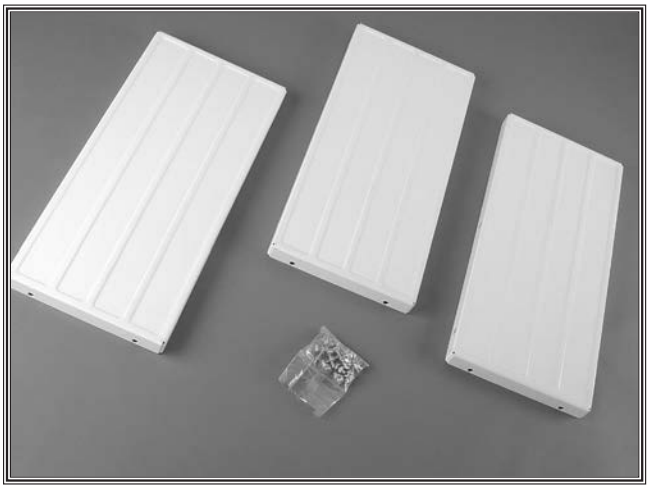


**Figure 10.** Extension wing box inventory.

**Figure 11.** T-bolt and rail T-slot.

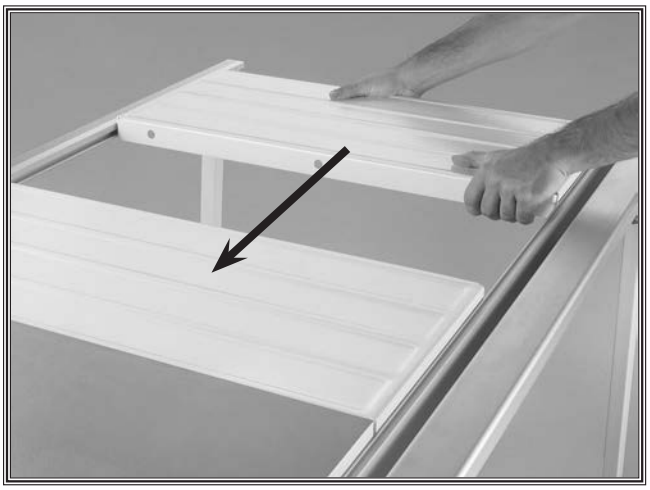


**Figure 12.** Sliding in the wings.

# ADJUSTMENTS

The **SHOP FOX®** W1716/W1720 Aluma-Classic™ Fence requires little adjustment since most of the features are built in at the factory. The primary adjustment is to position the fence so it is parallel to the saw blade.

## Fence Parallelism

If your table saw has been properly adjusted, the saw blade should be parallel to the miter slot. Refer to your table saw manual for the proper procedure to check and adjust the saw blade to the miter slot correctly.

**To adjust the SHOP FOX® Aluma-Classic™ Fence parallel with the miter slot, do these steps:**

1. **UNPLUG THE TABLE SAW!**

2. Align the edge of the fence with the edge of the miter slot.

3. Lock the fence and check the alignment between the left edge and the miter slot.

4. Adjust the setscrews shown in **Figure 13** to adjust the angle of the fence. Note— *The left setscrew will move the fence left and the right setscrew will move the fence right.*

5. Adjust the fence until the back end falls 1/64" away from the miter slot so the workpiece clears the opposite end of the saw blade without binding. This is called "lead" (pronounced *leed*).

**⚠WARNING**

**KICK-BACK! DO NOT cut on the left side of the blade if the fence lead is adjusted for cutting on the right side of the blade. Re-adjust the lead when changing the side of the blade you are cutting on.**

**⚠WARNING**

**DISCONNECT power to the saw at this time! Otherwise, serious injury may occur.**

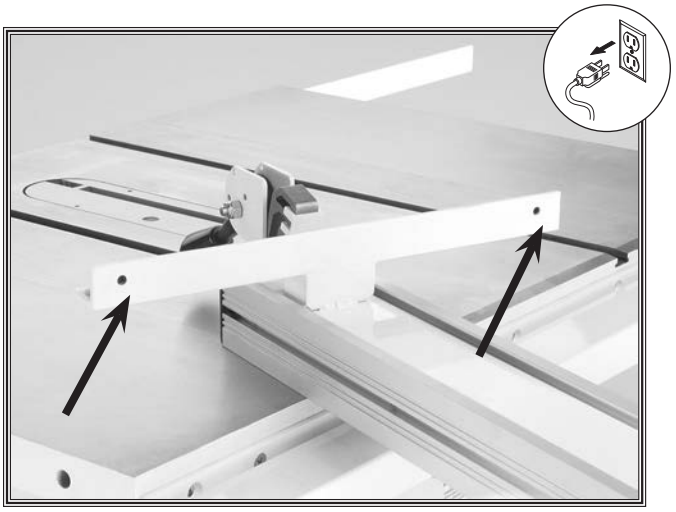
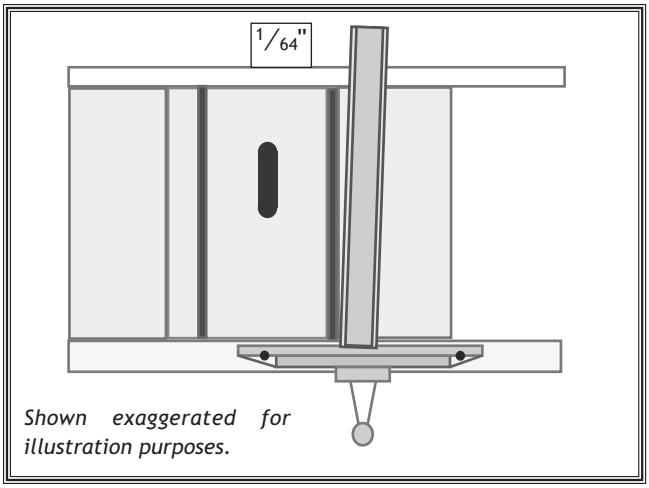


**Figure 13.** Fence adjustment setscrews.




*Shown exaggerated for illustration purposes.*

**Figure 14.** Lead adjustment.

# Scale Installation & Adjustment

The self-adhesive scale provides fast and accurate fence positioning. It is best to install the scale after all other adjustments in this section have been made. **Figure 15** shows the scale properly installed on the front rail.

**To install the scale indicator, do these steps:**

1. **UNPLUG THE TABLE SAW!**

2. Raise the blade to its maximum height.

3. Position the fence against the right side of the blade.

4. Carefully place the scale along the front rail about 1/2" away from the edge and underneath the scale indicator. Note—*Do not stretch the tape! This will cause inaccurate cuts.*

5. Position the "0" mark on the scale under the cursor hairline and secure the scale to the rail.

6. Adjust the cursor left or right so the hairline is directly over the "0" mark on the scale.

7. Make a test cut then measure the thickness of your test board.

8. Fine tune the hairline indicator to correspond with the actual test board thickness. This method accounts for any vibration or wobble that may be present in the spinning blade.

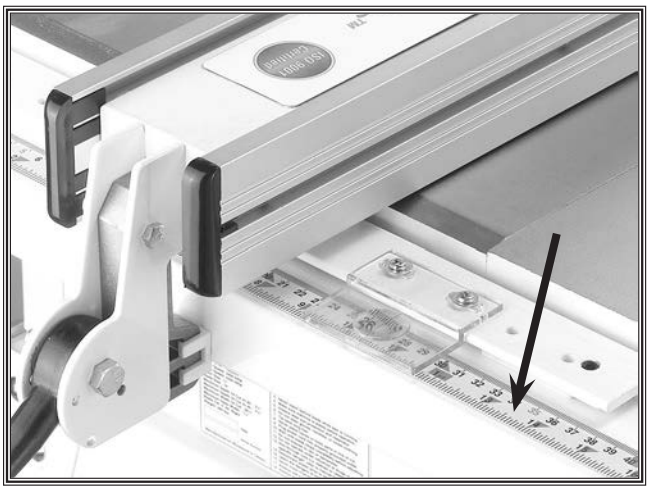
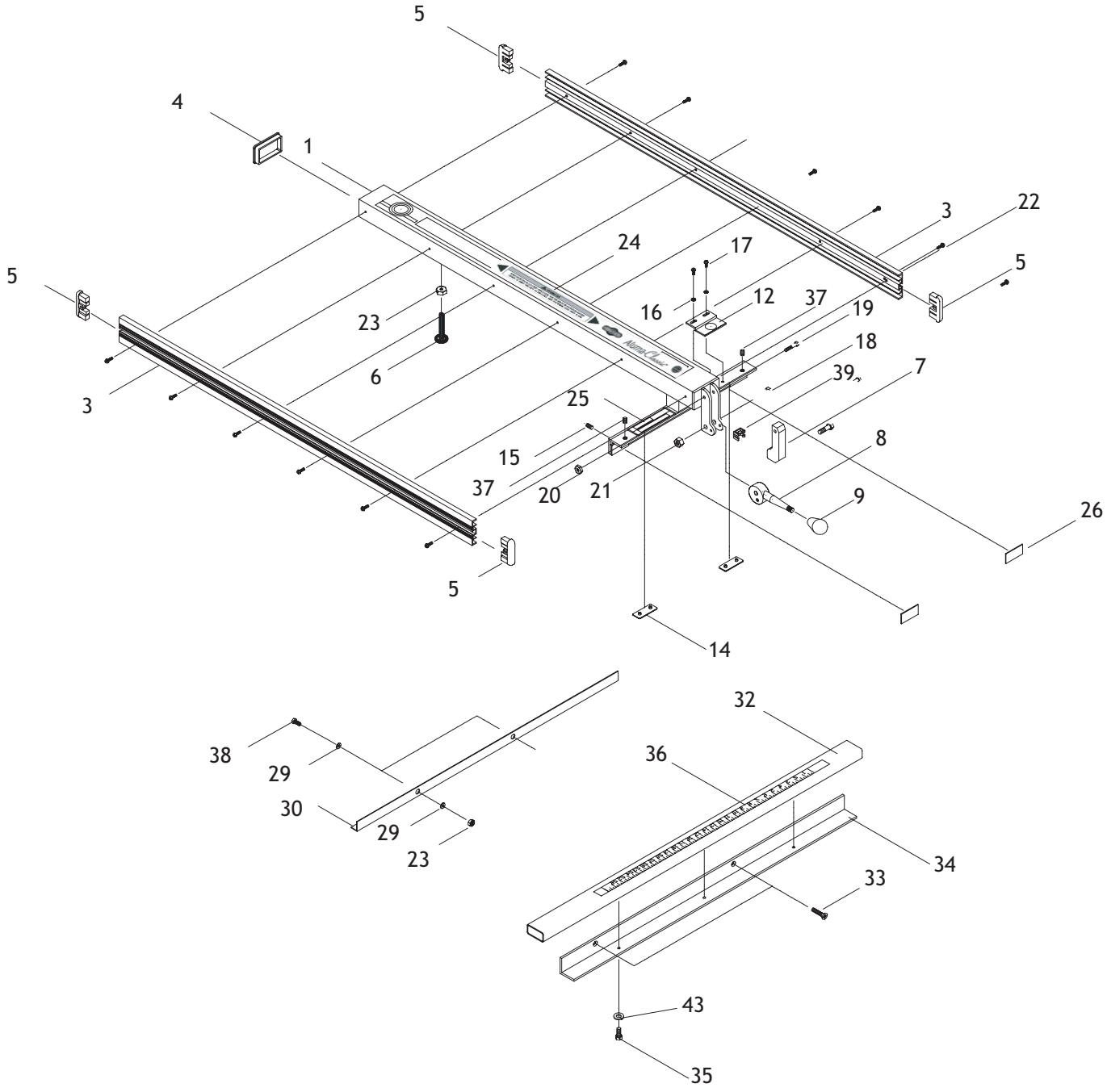


**Figure 15.** Scale installed on front rail.

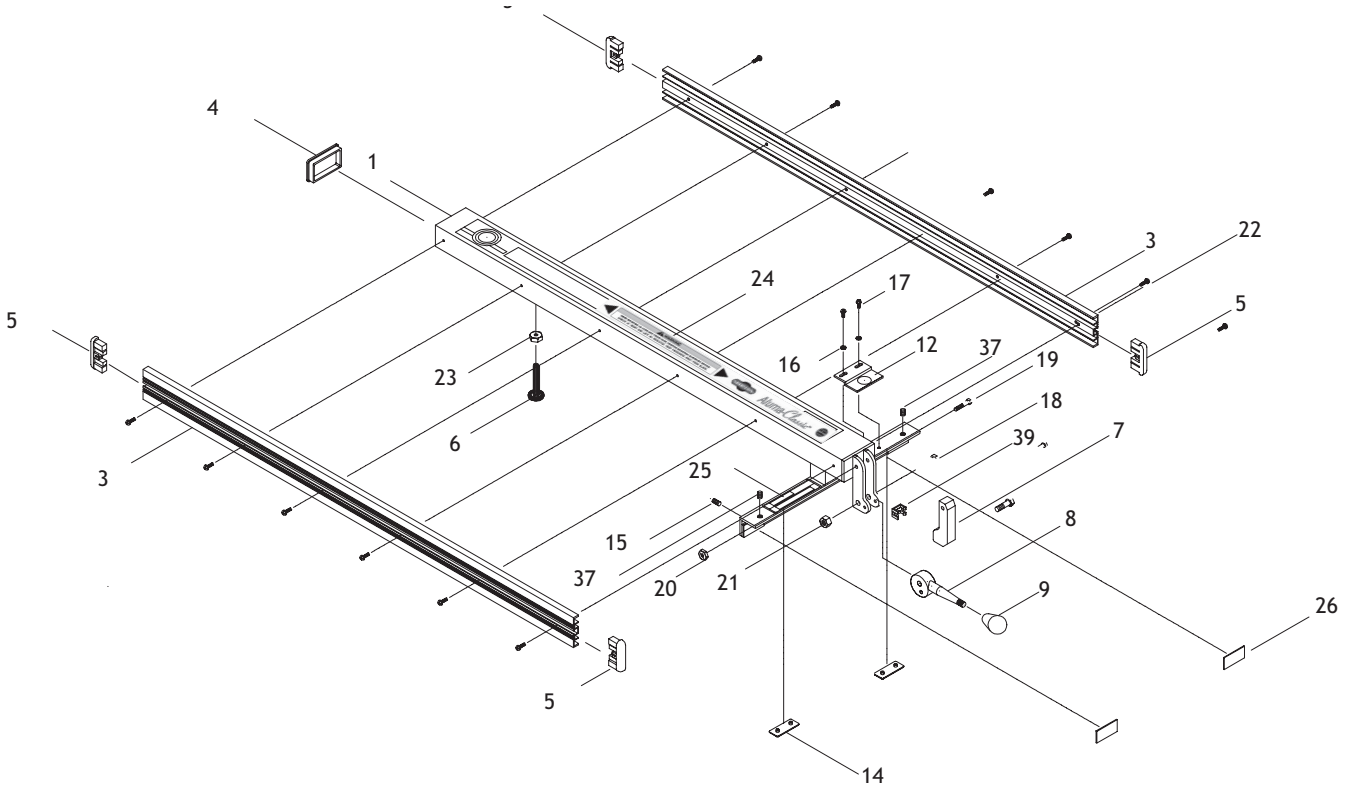
# W1716 SHOP FOX® Aluma-Classic™ Fence

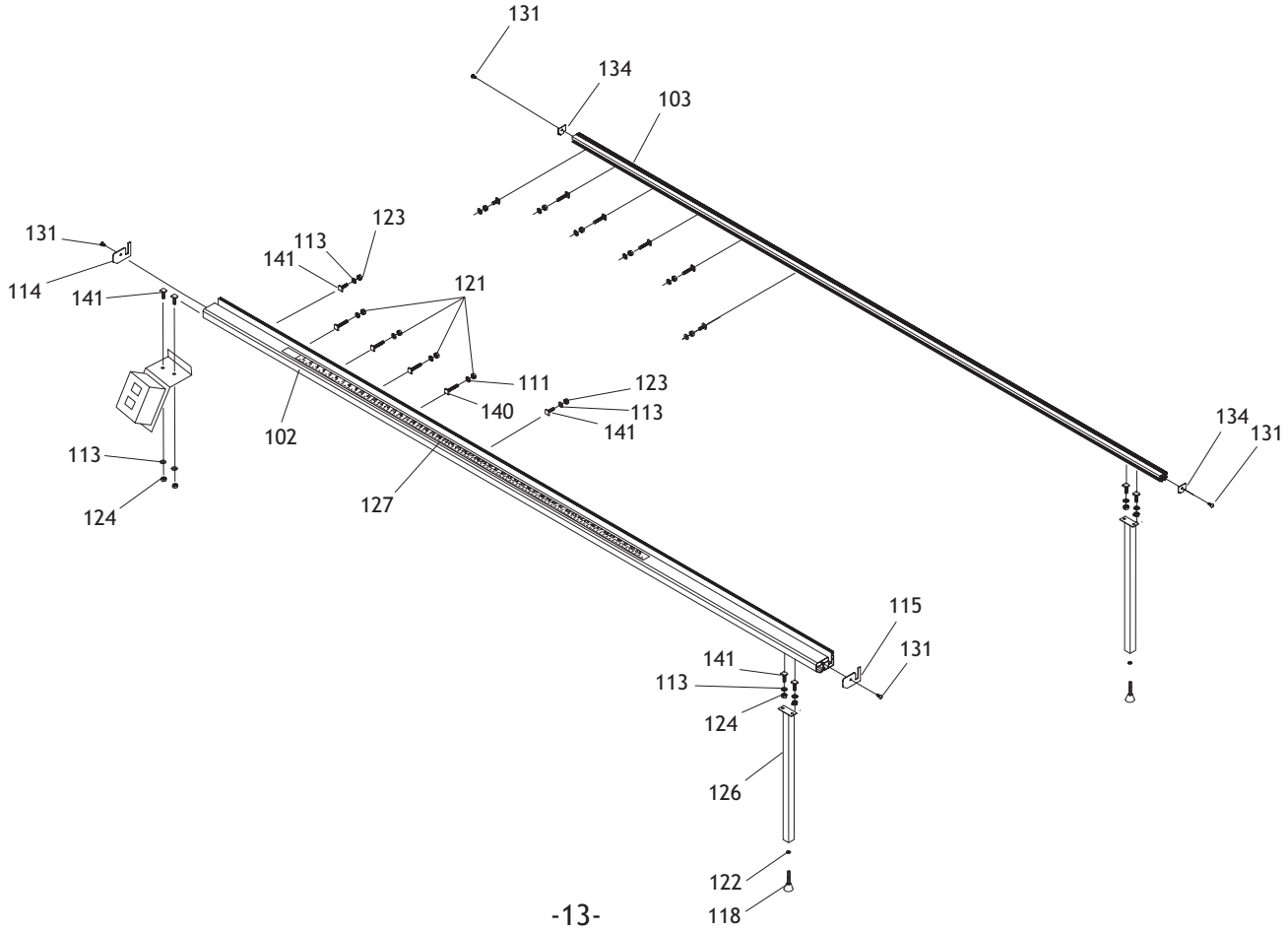


# W1716 SHOP FOX® Aluma-Classic™ Fence

| REF | PART # | DESCRIPTION |
|---|---|---|
| 1 | X1716001 | FENCE BODY ASSEMBLY |
| 3 | X1716003 | FENCE SIDEBOARD |
| 4 | X1716004 | FENCE PLUG |
| 5 | X1716005 | FENCE SIDEBOARD CAP |
| 6 | X1716006 | ADJUSTMENT BOLT 5/16"-18 |
| 7 | X1716007 | CLAMP |
| 8 | X1716008 | HANDLE |
| 9 | X1716009 | FEMALE KNOB |
| 12 | X1716012 | CLEAR INDICATOR |
| 14 | X1716014 | SLIDER 19 X 50 X 2T |
| 15 | X1716015 | SETSCREW 5/16"-18 X 1/4" |
| 16 | X1716016 | FLAT WASHER #10 |
| 17 | X1716017 | PHLP HD SCR 10-24 X 3/8" |
| 18 | X1716018 | HEX BOLT 3/8"-16 X 1 3/4" |
| 19 | X1716019 | HEX BOLT 1/4"-20 X 1 3/4" |
| 20 | X1716020 | LOCK NUT 1/4"-20 |
| 21 | X1716021 | LOCK NUT 3/8"-16 |
| 22 | X1716022 | PHLP HD SCR 8-32 X 3/8" |
| 23 | X1716023 | HEX NUT 5/16"-18 |
| 24 | X1716024 | ALUMA-CLASSIC™ LABEL |
| 25 | X1716025 | WARNING LABEL (SHORT) |
| 26 | X1716026 | SLIDER 19 X 50 X 1.2T |
| 29 | X1716027 | FLAT WASHER 5/16" |
| 30 | X1716030 | REAR RAIL |
| 32 | X1716032 | FRONT RAIL |
| 33 | X1716033 | FLAT HD SCR 5/16"-18 X 1 |
| 34 | X1716033 | FRONT RAIL BRACKET |
| 35 | X1716035 | HEX BOLT 1/4"-20 X 3/4" |
| 36 | X1716036 | SCALE 30" |
| 37 | X1716037 | SETSCREW 5/16"-18 X 1/4" |
| 38 | X1716038 | CAP SCREW 5/16"-18 X 1 |
| 39 | X1716039 | CLAMP PLUG |
| 43 | X1716043 | LOCK WASHER 1/4" |

# W1720 SHOP FOX® Aluma-Classic™ Fence



# W1720 SHOP FOX® Aluma-Classic™ Fence

| REF | PART # | DESCRIPTION |
|---|---|---|
| 1 | X1720001 | FENCE BODY ASSEMBLY |
| 3 | X1720003 | FENCE SIDEBOARD |
| 4 | X1720004 | FENCE PLUG |
| 5 | X1720005 | FENCE SIDEBOARD CAP |
| 6 | X1720006 | ADJUSTMENT BOLT 5/16"-18 |
| 7 | X1720007 | CLAMP |
| 8 | X1720008 | HANDLE |
| 9 | X1720009 | FEMALE KNOB |
| 12 | X1720012 | CLEAR INDICATOR |
| 14 | X1720014 | SLIDER 19 X 50 X 2T |
| 15 | X1720015 | SETSCREW 5/16"-18 X 1/4" |
| 16 | X1720016 | FLAT WASHER #10 |
| 17 | X1720017 | PHLP HD SCR 10-24 X 3/8" |
| 18 | X1720018 | HEX BOLT 3/8"-16 X 1 3/4" |
| 19 | X1720019 | HEX BOLT 1/4"-20 X 1 3/4" |
| 20 | X1720020 | LOCK NUT 1/4"-20 |
| 21 | X1720021 | LOCK NUT 3/8"-16 |
| 22 | X1720022 | PHLP HD SCR 8-32 X 3/8" |
| 24 | X1720024 | ALUMA-CLASSIC™ LABEL |
| 25 | X1720025 | WARNING LABEL (SHORT) |

| REF | PART # | DESCRIPTION |
|---|---|---|
| 26 | X1720026 | SLIDER 19 X 50 X 1.2T |
| 37 | X1720037 | SETSCREW 5/16"-18 X 1/4" |
| 39 | X1720039 | CLAMP PLUG |
| 102 | X1720102 | ALUMINUM FRONT RAIL |
| 103 | X1720102 | ALUMINUM REAR RAIL |
| 111 | X1720111 | FLAT WASHER 6MM |
| 113 | X1720113 | FLAT WASHER 5/16" |
| 114 | X1720114 | FRONT RAIL CAP (L) |
| 115 | X1720115 | FRONT RAIL CAP (R) |
| 118 | X1720118 | RUBBER FOOT BOLT |
| 121 | X1720121 | HEX NUT M6-1 |
| 122 | X1720122 | HEX NUT 3/8"-16 |
| 123 | X1720123 | HEX NUT 5/16"-18 |
| 124 | X1720124 | HEX NUT 5/16"-18 |
| 126 | X1720126 | LEG (LONG) |
| 127 | X1720127 | LENGTH SCALE 50" |
| 131 | X1720131 | SELF TAP SCREW #8 X 3/8" |
| 134 | X1720134 | REAR RAIL CAP |
| 140 | X1720140 | SQUARE BOLT M6-1 X 30 |
| 141 | X1720141 | SQUARE BOLT 5/16"-18 X 3/4" |

# Warranty Registration

Name_____

Street _____

City _____ State_____ Zip_____

Phone #_____ Email_____ Invoice #_____

Model #_____ Serial #_____ Dealer Name_____ Purchase Date_____

*The following information is given on a voluntary basis. It will be used for marketing purposes to help us develop better products and services.* ***Of course, all information is strictly confidential.***

**1.** How did you learn about us?

_____ Advertisement _____ Friend ____ Local Store
_____ Mail Order Catalog _____ Website ____ Other:

**2.** How long have you been a woodworker/metalworker?

_____ 0-2 Years _____ 2-8 Years ____ 8-20 Years _____ 20+ Years

**3.** How many of your machines or tools are Shop Fox?

_____ 0-2 _____ 3-5 ____ 6-9 _____ 10+

**4.** Do you think your machine represents a good value? _____ Yes ____ No

**5.** Would you recommend Shop Fox products to a friend? _____ Yes ____ No

**6.** What is your age group?

_____ 20-29 _____ 30-39 ____ 40-49
_____ 50-59 _____ 60-69 ____ 70+

**7.** What is your annual household income?

_____ $20,000-$29,000 _____ $30,000-$39,000 ____ $40,000-$49,000
_____ $50,000-$59,000 _____ $60,000-$69,000 ____ $70,000+

**8.** Which of the following magazines do you subscribe to?

____ Cabinet Maker
____ Family Handyman
____ Hand Loader
____ Handy
____ Home Shop Machinist
____ Journal of Light Cont.
____ Live Steam
____ Model Airplane News
____ Modeltec
____ Old House Journal
____ Popular Mechanics
____ Popular Science
____ Popular Woodworking
____ Practical Homeowner
____ Precision Shooter
____ Projects in Metal
____ RC Modeler
____ Rifle
____ Shop Notes
____ Shotgun News
____ Today's Homeowner
____ Wood
____ Wooden Boat
____ Woodshop News
____ Woodsmith
____ Woodwork
____ Woodworker West
____ Woodworker's Journal
____ Other:

**9.** Comments:_____

_____

_____

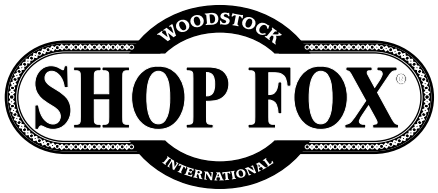
_____

_____

CUT ALONG DOTTED LINE

FOLD ALONG DOTTED LINE

Place
Stamp
Here




**WOODSTOCK INTERNATIONAL INC.**
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**BELLINGHAM, WA 98227-2309**

FOLD ALONG DOTTED LINE

TAPE ALONG EDGES--PLEASE DO NOT STAPLE